(650) 326-2400

Applicant: Atsushi Tanaka et al. Atty Docket No. 16869K-112900US

Appln. No. 10/817,032 **Confirmation No.** 2793

Title: Network Converter and Information Processing System

Sheet 1 of 7

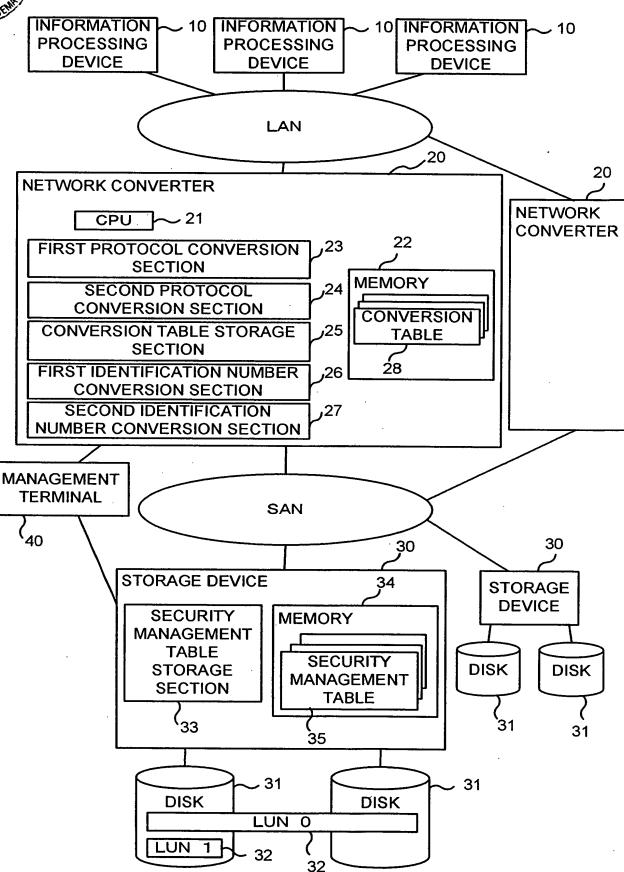


Fig. 1

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Sheet 2 of 7

iSCSI NAME	Node_Name(WWN)	N_Port_Name(WWN)		
INFORMATION PROCESSING DEVICE #1	01020304	0101ABCD		
INFORMATION PROCESSING DEVICE #2	030A0B0C	0201EF01		
:	:	:		
STORAGE DEVICE #1	[*] 0A010203	0A020100		
:	:	:		
default	FFFFFFF (ACCESS DISABLED)	FFFFFFF (ACCESS DISABLED)		

Fig. 2

Node_Name(WWN)	N_Port_Name(WWN)	LUNO	LUN1		LUNn]~ 35
01020304	0101ABCD	1	0	•••	0	
030A0B0C	0201EF01	0	1		1	
:	:		:		:	
FFFFFFF (ACCESS DISABLED)	FFFFFFF (ACCESS DISABLED)	0	0	•••	0	

Fig. 3

Robert C. Colwell, Reg. No. 27,431 (650) 326-2400 Applicant: Atsushi Tanaka et al. Appln. No. 10/817,032 Atty Docket No. 16869K-112900US Confirmation No. 2793 Title: Network Converter and Information Processing System Sheet 3 of 7 3/7 **START** RECEIVE COMBINATION OF S401 **NETWORK CONVERTER AND** STORAGE DEVICE RECEIVE COMBINATION OF - S402 **ISCSI NAME AND LUN OF** STORAGE DEVICE RECEIVE COMBINATION OF ISCSI NAME AND LUN OF INFORMATION S403 PROCESSING DEVICE HAVING **ACCESS PERMISSION** S404 WWN NO AUTOMATICALLY GENERATED? S406 YES RECEIVE WWN **GENERATE WWN CORRESPONDING ISCSI** S405 **CORRESPONDING TO ISCSI** NAME OF INFORMATION NAME OF INFORMATION PROCESSING DEVICE PROCESSING DEVICE HAVING HAVING ACCESS **ACCESS PERMISSION** PERMISSION TRANSMIT COMBINATION OF WWN AND LUN OF INFORMATION PROCESSING S407 DEVICE HAVING ACCESS PERMISSION TO STORAGE DEVICE TRANSMIT COMBINATION OF ISCSI S408 NAME AND WWN OF STORAGE DEVICE TO NETWORK CONVERTER TRANSMIT COMBINATION OF ISCSI NAME AND WWN OF INFORMATION PROCESSING DEVICE HAVING ACCESS **S409** PERMISSION TO NETWORK CONVERTER

Fig. 4

END

(650) 326-2400 Robert C. Colwell, Reg. No. 27,431 **Appln. No.** 10/817,032 Applicant: Atsushi Tanaka et al.

Atty Docket No. 16869K-112900US Confirmation No. 2793

Title: Network Converter and Information Processing System

Sheet 4 of 7

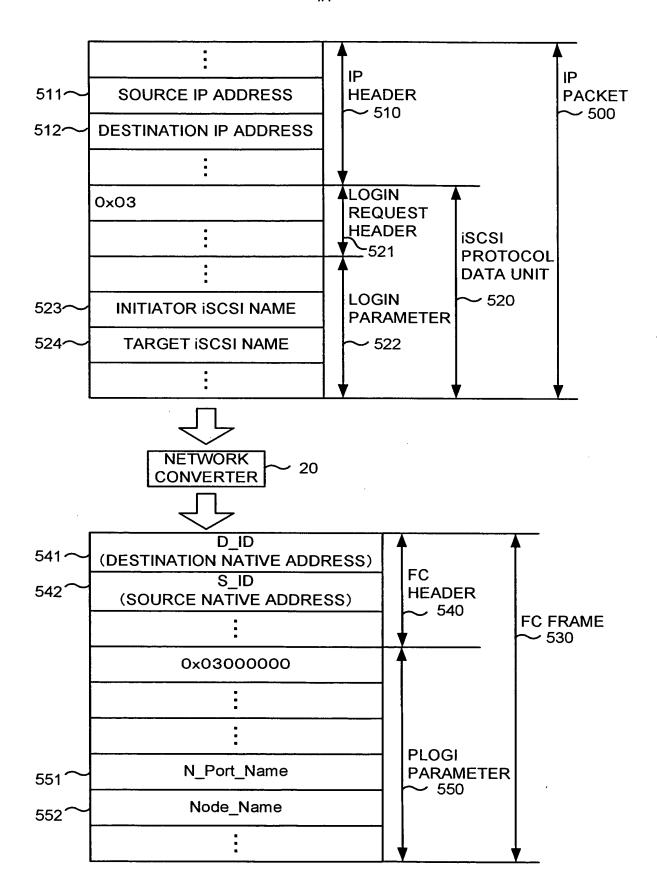


Fig. 5

Robert C. Colwell, Reg. No. 27,431 (650) 326-2400 Applicant: Atsushi Tanaka et al. Appln. No. 10/817,032 Atty Docket No. 16869K-112900US Confirmation No. 2793 Title: Network Converter and Information Processing System Sheet 5 of 7 5/7 < INFORMATION <NETWORK CONVERTER> <STORAGE DEVICE> **PRCESSING** S602 ACQUIRE WWN OF **DEVICE>** INFORMATION PROCESSING DEVICE **S603** TRANSMIT FC LOGIN OF INFORMATION **ISCSI LOGIN** PROCESSING DEVICE REQUEST ,S604 ACQUIRE NATIVE ADDRESS OF INFORMATION PROCESSING S601 **DEVICE S605** ACQUIRE WWN OF STORAGE DEVICE **,**S606 ACQUIRE NATIVE ADDRESS OF STORAGE DEVICE STORE WWN AND S607 S_ID AND TRANSMIT FC FRAME (PLOGI) TRANSMIT ACC (INCLUDING WWN AND S ID) **FRAME** S609, ACQUIRE WWNS OF **S608** INFORMATION PROCESSING DEVICE AND STORAGE DEVICE S612 ACQUIRE ISCSI NAMES OF S610 INFORMATION PROCESSING DEVICE AND STORAGE DEVICE TRANSMIT RETURN ISCSI LOGIN S611 **COMMAND** RESPONSE (INCLUDING **ACQUIRE WWNS OF** S613 INFORMATION PROCESSING DEVICE AND STORAGE DEVICE S616 **ACQUIRE NATIVE ADDRESSES** CHECK ACCESS OF INFORMATION PROCESSING S614 **ENABLE/DISABLE** DEVICE AND STORAGE DEVICE OF INFORMATION **PROCESSING** TRANSMIT FC FRAME S615 DEVICE BASED (INCLUDING S_ID AND LUN) ON S ID AND LUN S618, **ACQUIRE WWNS OF** INFORMATION PROCESSING TRANSMIT FC DEVICE AND STORAGE DEVICE FRAME S621 INCLUDING ISCSI ACQUIRE ISCSI NAMES OF COMMAND INFORMATION PROCESSING RECEIVE SCSI S619 **PROCESSING** DEVICE AND STORAGE DEVICE COMMAND RESULT **PROCESSING** TRANSMIT SCSI RESPONSE S620, RESULT

INCLUDING SCSI COMMAND

PROCESSING RESULT

Fig. 6

S617

SCSI

LUN)

(650) 326-2400

Applicant: Atsushi Tanaka et al.
Atty Docket No. 16869K-112900US

Appln. No. 10/817,032 **Confirmation No.** 2793

Title: Network Converter and Information Processing System

Sheet 6 of 7

NATIVE ADDRESS	Node_Name(WWN)	N_Port_Name(WWN)]
0001	01020304	0101ABCD	~ 701
0002	030A0B0C	0201EF01	
:	:	:	
0005	FFFFFFF	FFFFFFF]

Fig. 7

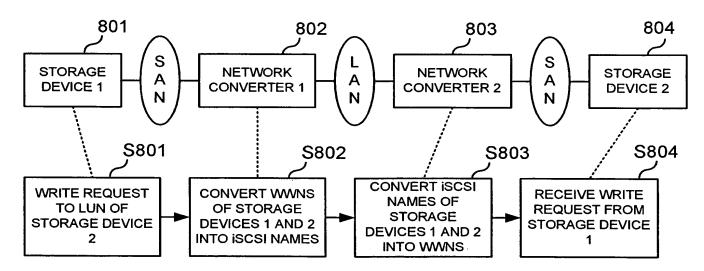


Fig. 8

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Appln. No. 10/817,032 **Confirmation No.** 2793

Title: Network Converter and Information Processing System

Sheet 7 of 7

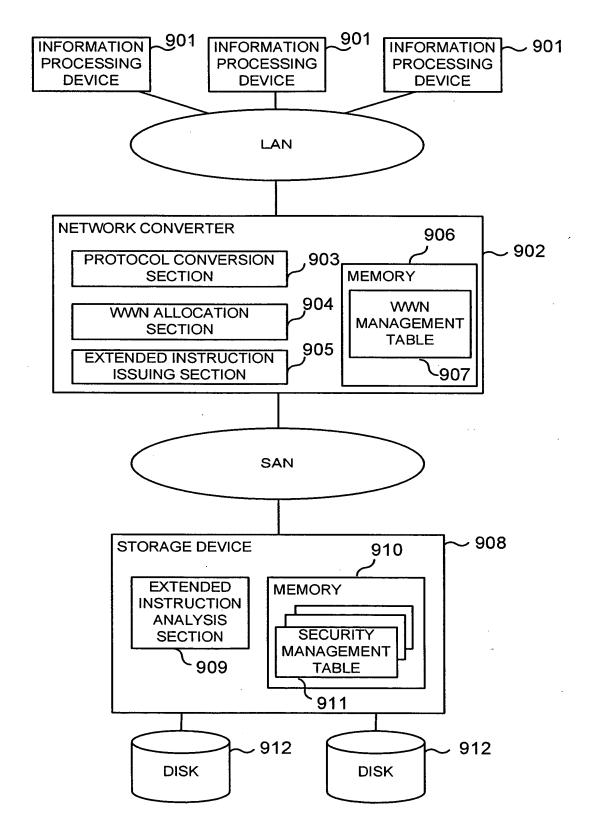


Fig. 9